a molecular weight of 70,800, cleaving heparan sulfate, and having a pH optimum of 9.9-10.1.

58. (twice amended) A method for purifying heparinase I, II, and III from a biologically pure culture of ~~*Heparinum-Flavobacterium*~~ *heparinum* comprising the steps of

lysing *Flavobacterium heparinum* cells in a biologically pure culture of *Flavobacterium heparinum*,

removing cell debri and nucleic acids from the cell lysate,

absorption of heparinase I, II, and III to hydroxyapatite,

absorption of non-heparinase I, II, and III proteins to QAE-resin,

recovery of the heparinase I, II, and III not bound to the QAE-resin,

separation of heparinase I, II, and III by HPLC on a hydroxylapatite column,

recovery of the heparinase I, II, and III separated on the hydroxylapatite column,

purification of the separated heparinases by cation exchange FPLC, [and]

recovery of the heparinase I, II, and III separated by cation exchange FPLC,